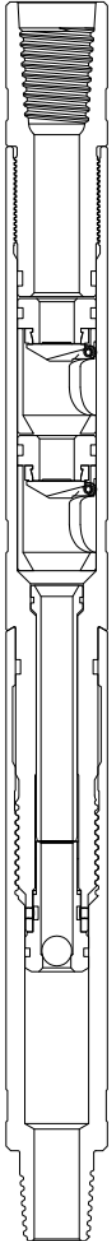




TJ Dual Flapper Check Valve Hydraulic Disconnect



The TJ Dual Flapper Check Valve Hydraulic Disconnect is a patented design which combines a dual flapper check valve with a hydraulic disconnect in one tool.

The Dual Flapper Check Valve section of the tool can only be pumped through in one direction. The tool allows fluid to be pumped through the work string during “conventional circulation”, by pumping down the work string and returning up the annulus. If the fluid tries to flow up the work string such as in reverse circulation, the Check Valve Cartridges close preventing this from happening, therefore only circulation in the conventional manner is allowed.

The Hydraulic Disconnect section of the tool is a simple design with only one moving part and it does not require any special tools for assembly. If the coil tubing string becomes stuck in the wellbore a ball is pumped to the disconnect. An increase in pump pressure will shift the disconnect into release position allowing retrieval of the stuck string. The bottom sub of the disconnect is then left in the hole, having an internal fishing profile providing for fishing operations.